SWP Monthly Water Quality Summary

February 8 to March 10, 2011

Electrical Conductivity: EC increased at Harvey O. Banks Pumping Plant (HBP), Check 29, Check 41, and Devil Canyon 2nd Afterbay, but decreased at Barker Slough and Vallecitos. Concentrations ranged from 225 uS/cm to 607µS/cm (142 mg/L to 307 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 µS/cm). HBP had the highest concentration (339 µS/cm or 203 mg/L) at the end of the month while the lowest concentration (284 µS/cm or 170 mg/L) occurred at Devil Canyon 2nd Afterbay. The 31-day average concentration at Harvey O. Banks Pumping Plant (HBP) was 301 µS/cm (181 mg/L).

Turbidity: Turbidity levels decreased at HBP, but increased at Check 41, Devil Canyon 2nd Afterbay, Barker Slough, and Vallecitos. Turbidity ranged from 4.5 NTU to 84.7 NTU. At the end of the month, the lowest level of 10.3 NTU occurred at Devil Canyon 2nd Afterbay while the highest level of 84.7 NTU occurred at Barker Slough. The 31-day average turbidity level at HBP was 24.3 NTU.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP ranged from non-detect to 3 ng/L at Clifton Court Inlet, HBP, Del Valle Check 7, and O'Neill Forebay Check 13.

Groundwater Pump-ins: Groundwater pump-ins into the California Aqueduct from Arvin-Edison Water Storage District from February 14 to March 5, 2011 totaled 2,304 AF.

Flood Water Inflow: Flood water inflow into the California Aqueduct from Cantua Creek and Pools 17-21 DI's (Drain Inlet) from February 18 to March 4, 2011 totaled 1,186 AF.

Note:
The intent of the monthly water quality (WQ) summary is to acquaint state water contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and should be directed to Cindy Garcia at 916-653-7213, or Austine Eke at 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

SWP Water Quality Report

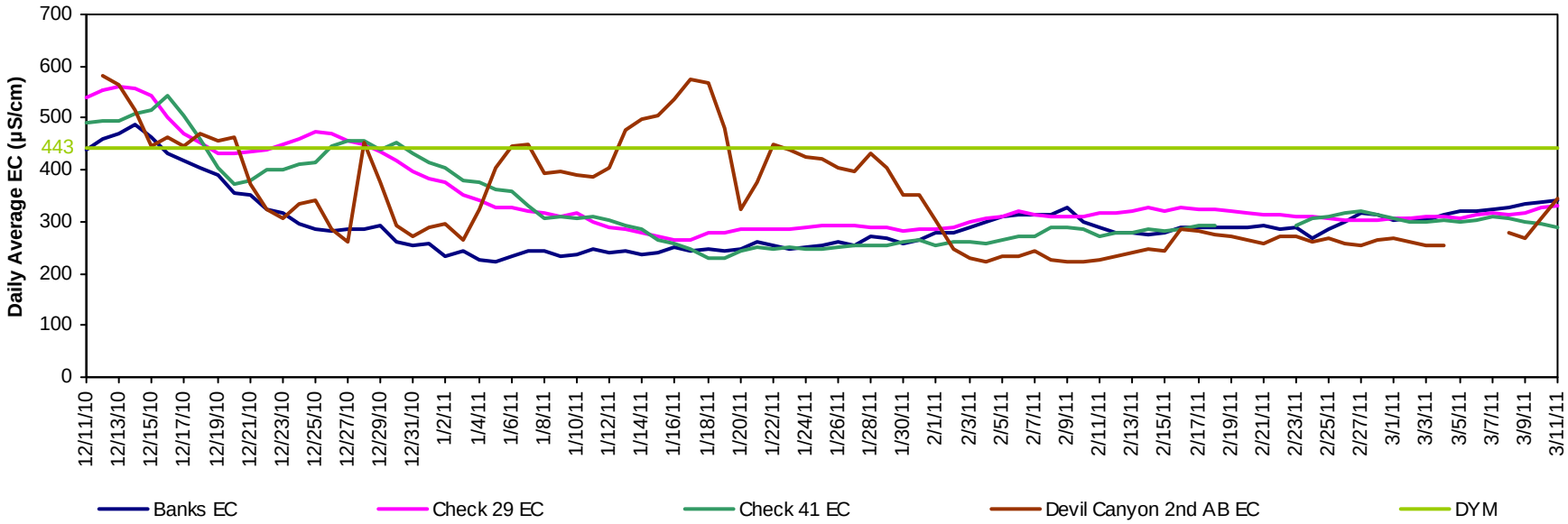
DWR Operations & Maintenance Water Quality Automated Station Data from February 8 to March 10, 2011.
Automated sampling stations provide real time data by continuously measuring water quality conditions in the California Aqueduct.

Water Quality Parameters	Objective	Range	Harvey O. Banks PP KA000331	Check 29 KA024454	Check 41 KA030341	Devil Canyon 2-Afterbay KA041288	NBA at Barker Slough KG000000	Vallecitos KB002250	Check 13 O'Neill Forebay Outlet KA007089	Edmonston PP KA0029345
EC (µS/cm)	733**	2/08/2011	314	312	288	225	607	350		
		3/10/2011	339	326	295	294	300	313		
		% change	7	4	2	24	-102	-12		
		31-day Avg.	301	314	297	258	408	304		
Turbidity (NTU)		2/08/2011	68.7	7.2	13.6	4.5	53.7	9.2		
		3/10/2011	11.9	No Data	30.7	10.3	84.7	16.2		
		% change	-477	No Data	56	56	37	43		
		31-day Avg.	24.3	No Data	16.7	2.3	74.8	17.2		

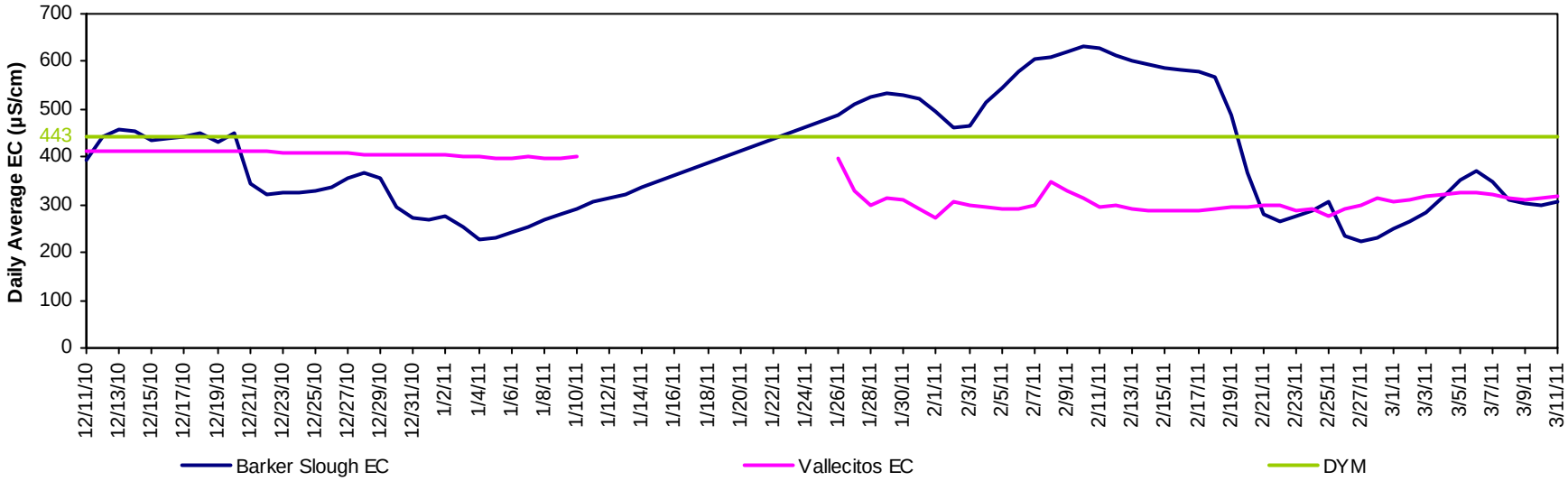
Taste & Odor Parameters	Range	Clifton Court KA000000	Harvey O. Banks PP KA000331	Lake Del Valle, Check 7 KB001632	Check 13 O'Neill Forebay Outlet KA007089	Check 41 KA030341	Check 66 KA040341	Castaic Lake	Lake Perris	Silverwood Lake
MIB (ng/L)	2/08/2011	ND	ND-1	ND-1	ND-2	ND	ND	ND	ND	ND
Geosmin (ng/L)	03/10/2011	2-3	2 – 3	2-3	2-3	ND	ND	ND	ND	ND

*CBDA Objective; **Article 19 Monthly Average (converted from 440 mg/L to 733µS/cm); ND = Non-detec or no datat.

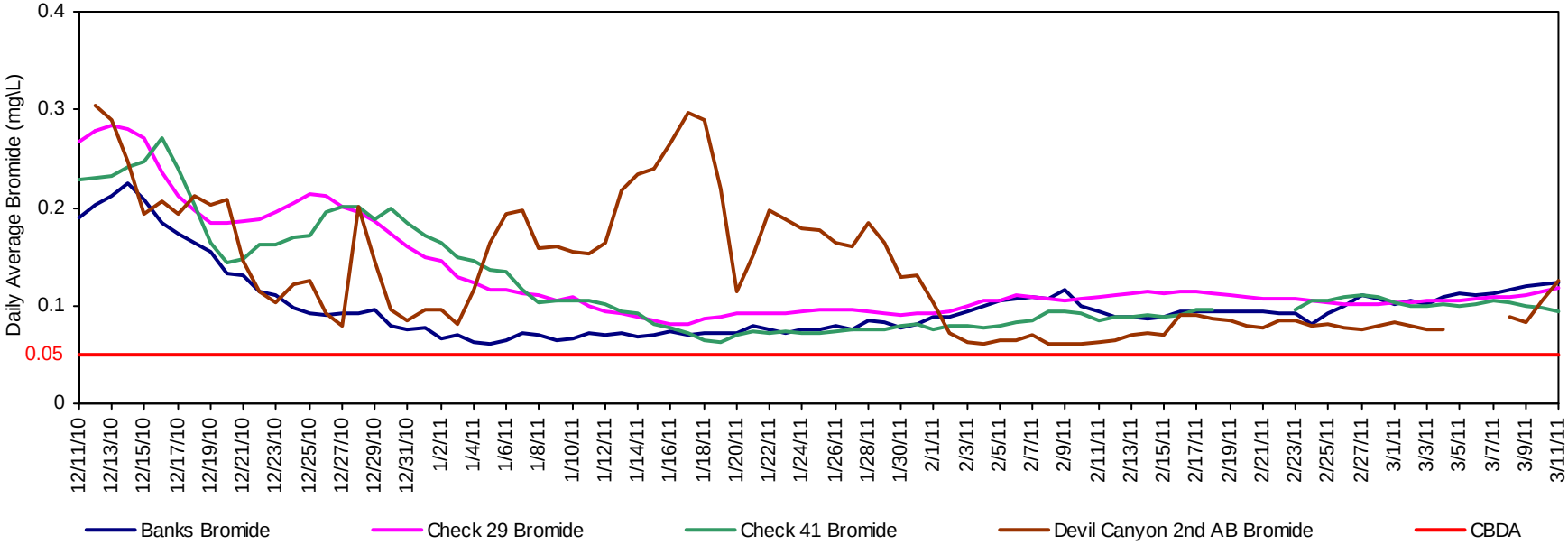
California Aqueduct - Electrical Conductivity



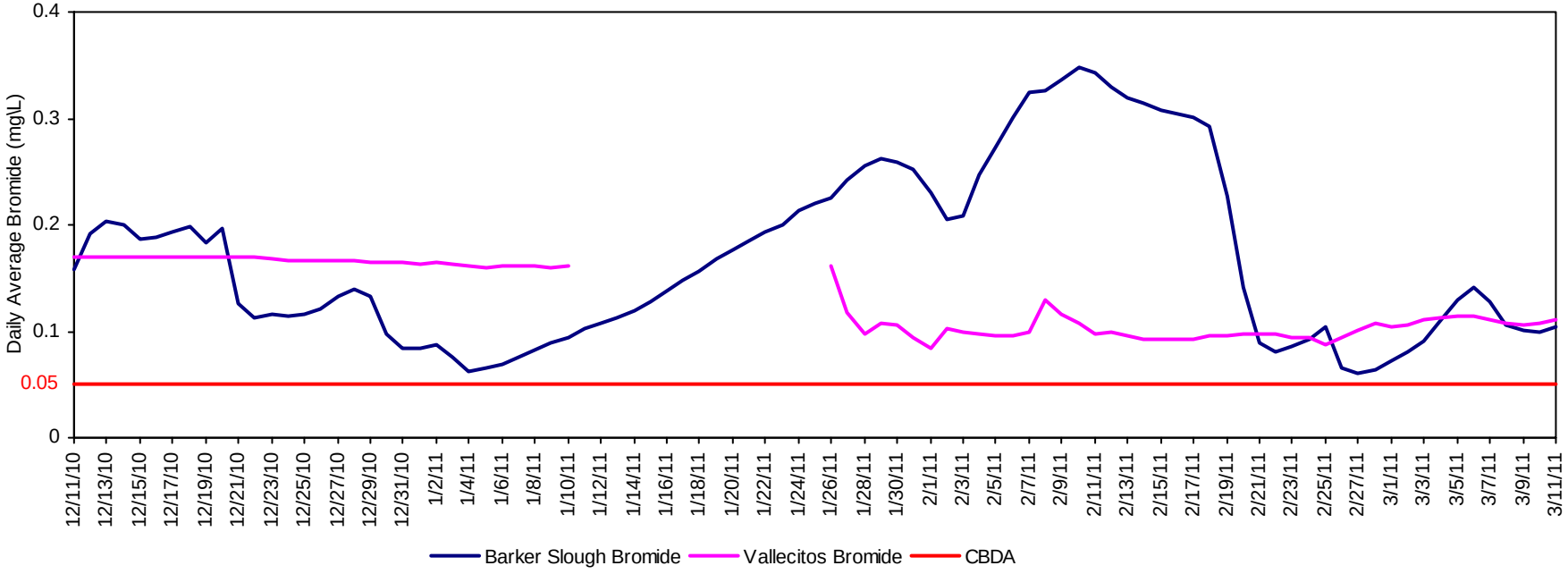
North and South Bay Aqueduct - Electrical Conductivity



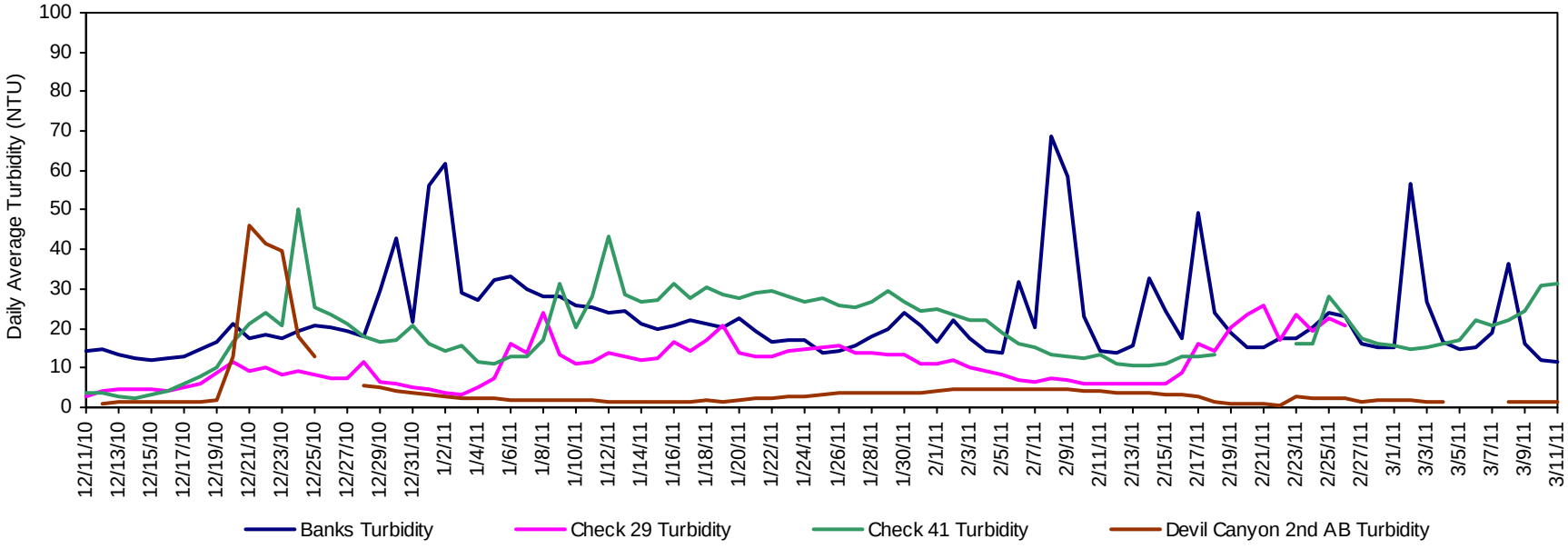
California Aqueduct - Calculated Bromide



North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity